



## **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions and listings of claims in the application:

- 1. 4. canceled
- 5. (currently amended) An organic light-emitting device comprising a light-emissive organic layer interposed between first and second electrodes for injecting charge carriers into the light-emissive organic layer, at least one of said first and second electrodes comprising a plurality of layers including a first electrode layer having a high resistance adjacent the surface of the light-emissive organic layer remote from the other of the first and second electrodes, said first electrode layer comprising a high-resistance material selected from the group consisting of a mixture of a semiconductor material with an insulator material, a mixture of a semiconductor material with a conductor material and a mixture of an insulator material with a conductor material, and the first electrode layer having a thickness of at least 0.5 microns.
- 6. (currently amended) An organic light-emitting device according to claim [1] 5 wherein the first electrode layer comprises at least one material having a low work function.

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MnO<sub>2</sub>, and SiC, or wherein the insulator material is selected from the group consisting of an oxide, a nitride and a fluoride, preferably from the group consisting of Al<sub>2</sub>O<sub>3</sub>, SiO<sub>2</sub>, LiO, AlN, SiN, LiF and CsF.

- 8. (currently amended) An organic light-emitting device according to claim [1] 5 wherein the conductor material is a ductile metal and preferably is selected from the group consisting of Al and Ag.
- 9. (currently amended) An organic light-emitting device according to claim [1] 5 wherein the first electrode layer is comprised of a mixture selected from the group consisting of LiF/Al, Ca/Ge, Li/Si, Ca/ZnO, LiF/ZnSe and CsF/ZnS.
- organic layer interposed between first and second electrodes for injecting charge carriers into the light-emissive organic layer, and means for electrically isolating any conducting defect in the organic layer from an associated electrode wherein at least one of said first and second electrodes comprises a plurality of layers including a thin first electrode layer adjacent the surface of the light-emissive organic layer remote from the other of the first and second electrodes, the dimensions and material properties of said thin first electrode layer being such that, adjacent a conducting defect in said organic layer, said first electrode layer will vaporize when subject to an anomalous current resulting from said conducting defect so as to

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electrically isolate said conducting defect from an associated electrode.

11. - 13. canceled

14. (currently amended) An organic light-emitting device according to claim
[12] 10, further comprising a light-emissive organic layer interposed between firstand second electrodes for injecting charge carriers into the light-emissive organiclayer at least one of said first and second electrodes comprising a plurality of layersincluding a thin first electrode layer comprising a high work function material
adjacent the surface of the light-emissive organic layer remote from the other of the
first and second electrodes, and a second electrode layer adjacent the surface of the
first electrode layer remote from the organic light-emissive material, said second
electrode layer comprising a layer of a high-resistance material selected from the
group consisting of a semiconductor material, a mixture of a semiconductor material

15, (currently amended) An organic light-emitting device comprising a light-emissive organic layer interposed between first and second electrodes for injecting charge carriers into the light-emissive organic layer, at least one of said first and second electrodes being opaque and comprising a plurality of layers including a thin first electrode layer comprising a low work function material adjacent the surface of the light-emissive organic layer remote from the other of the first and second

with an insulator material, a mixture of a semiconductor material with a conductor

material and a mixture of an insulator material with a conductor material.

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electrodes, and a second electrode layer adjacent the surface of the first electrode layer remote from the light-emissive organic layer, said second electrode layer comprising a layer of a high-resistance material selected from the group consisting of a semiconductor material, a mixture of a semiconductor material with an insulator material, a mixture of a semiconductor material with a conductor material and a mixture of an insulator material and a conductor material, and the first electrode layer having a thickness of at least 0.5 microns.

16. - 21. canceled

22. previously canceled

23. (original) A light-emissive device comprising a layer of light-emissive material arranged between first and second electrode layers such that charge carriers ca move between the first and second electrode layers and the light-emissive material, wherein at least the first electrode layer comprises a plurality of sub-electrodes, each sub-electrode being connected to each of any sub-electrodes directly surrounding it via a fusible link, each fusible link adapted to break when subject to a current exceeding a specified value to electrically isolate the respective sub-electrode from the other sub-electrodes.

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- 24. (currently amended) A light-emissive device according to claim [11] 10 and wherein said at least one of said first and second electrodes comprises a plurality of sub-electrodes, each sub-electrode being connected to each of any sub-electrodes directly surrounding it via a fusible link, each fusible link adapted to break when subject to a current exceeding a specified value to electrically isolate the respective sub-electrode from the other sub-electrodes.
- 25. (previously amended) A light-emissive device according to claim 23 wherein the plurality of sub-electrodes are arranged to create an ordered array of parallel rows and columns, and each of the sub-electrodes is connected via a fusible link to each of any sub-electrodes directly adjacent to it in the same column and row.
- 26. (previously amended) A light-emissive device according to claim 23 wherein the size and spacing of the sub-electrodes is selected such that, during operation of the device, the light emitted by the light-emissive device appears to the human eye to be continuous in intensity across the whole area of light emission.

27. - 55. canceled

56. (currently amended) An organic light-emitting device according to claim
[13] 15 wherein the first electrode layer is comprised of a layer of a material selected from the group consisting of Ca, Li, Yb, LiF,CsF and LiO.

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57. (currently amended) An organic light-emitting device according to claim [13] 15 wherein the thickness of the first electrode layer is in the range of 0.5nm to 10nm, preferably less than 5nm.

- 58. canceled
- 59. previously canceled
- 60. (new) An organic light-emitting device according to claim 5 wherein said first electrode layer has a resistivity in the range 10<sup>2</sup> Ohm.cm to 10<sup>5</sup> Ohm.cm.
- 61. (new) An organic light-emitting device comprising a light-emissive organic layer interposed between first and second electrodes for injecting charge carriers into the light-emissive organic layer, at least one of said first and second electrodes comprising a plurality of layers including a first electrode layer having a high resistance adjacent the surface of the light-emissive organic layer remote from the other of the first and second electrodes, said first electrode layer comprising a high-resistance material wherein the first electrode layer is comprised of a mixture selected from the group consisting of LiF/AI, Ca/Ge, Li/Si, Ca/ZnO, LiF/ZnSe and CsF/ZnS.

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62. (new) An organic light-emitting device according to claim 15 wherein said second electrode layer has a resistivity in the range 10<sup>2</sup> Ohm.cm to 10<sup>5</sup> Ohm.cm.

63. (new) A light-emissive device according to claim 24 wherein the plurality of sub-electrodes are arranged to create an ordered array of parallel rows and columns, and each of the sub-electrodes is connected via a fusible link to each of any sub-electrodes directly adjacent to it in the same column and row.

64. (new) A light-emissive device according to claim 24 wherein the size and spacing of the sub-electrodes is selected such that, during operation of the device, the light emitted by the light-emissive device appears to the human eye to be continuous in intensity across the whole area of light emission.

65. (new) An organic light-emitting device comprising a light-emissive organic layer interposed between first and second electrodes for injecting charge carriers into the light-emissive organic layer, at least one of said first and second electrodes comprising a plurality of layers including a first electrode layer having a high resistance adjacent the surface of the light-emissive organic layer remote from the other of the first and second electrodes, said first electrode layer comprising a high-resistance material selected from the group consisting of a mixture of a semiconductor material with an insulator material, a mixture of a semiconductor material with a conductor material and a mixture of an insulator material with a

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conductor material, wherein said first electrode layer has a product of resistivity and thickness of at least 0.005 Ohm.cm<sup>2</sup>.

- 66. (new) An organic light-emitting device comprising a light-emissive organic layer interposed between first and second electrodes for injecting charge carriers into the light-emissive organic layer, at least one of said first and second electrodes comprising a plurality of layers including a thin first electrode layer comprising a low work function material adjacent the surface of the light-emissive organic layer remote from the other of the first and second electrodes, and a second electrode layer adjacent the surface of the first electrode layer remote from the light-emissive organic layer, said second electrode layer comprising a layer of a high-resistance material selected from the group consisting of a semiconductor material, a mixture of a semiconductor material with an insulator material, a mixture of a semiconductor material with a conductor material and a mixture of an insulator material and a conductor material, wherein said second electrode layer has a product of resistivity and thickness of at least 0.005 Ohm.cm<sup>2</sup>.
- 67. (new) An organic light-emitting device according to claim 7, wherein the insulator material is selected from the group consisting of Al<sub>2</sub>O<sub>3</sub>, SiO<sub>2</sub>, LiO, SiN, LiF, and CsF.

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68. (new) An organic light-emitting device according to claim 8, wherein the conductor material is selected from the group consisting of Al and Ag.

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